

**COMPOSITIONS OF NUCLEIC ACIDS AND CATIONIC AMINOGLYCOSIDES AND METHODS OF
USING AND PREPARING THE SAME**

ABSTRACT OF THE DISCLOSURE

[0099] Compositions that include nucleic acid and cationic aminoglycosides and methods for their use are provided. The subject compositions are characterized by having nucleic acid complexed with a cationic aminoglycoside, where the nucleic acid is condensed. In certain embodiments, the cationic aminoglycoside is a cationic aminoglycoside antibiotic. The composition may further include one or more of: functional groups such as targeting moieties, nuclear localization or targeting peptides, endosomolytic peptides and/or one or more lipids and/or polymers, where the lipids may be provided in a manner to encapsulate the nucleic acid. The present invention also provides methods of using and preparing the nucleic acid-aminoglycoside compositions.

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